PC/104 module with Industrial Quad-band GSM/GPRS Modem

PM-3801
Quick Installation Guide
Version 1.0

Jul. 08, 2009

Package Contents

PM-3801 package includes the following items:

- 1 x PM-3801 PC/104 GSM/GPRS module
- 1 x Utility CD includes utilities, and technical documentation
- 1 x Screw kits
- 1 x IPEX to SMA cable
- 1 x Antenna
- 1 x QIG

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Specifications

- BUS interface：PC/104
- 2-Watt EGSM 900 / GSM 850 radio section
- 1-Watt GSM 1800 / 1900 radio section
- Chipset：WAVCOM Q24 Plus
- Quad-Band GSM 850/900/1800/1900 MHz, GPRS Class 10
- Antenna：IPEX type
- Operating Voltage：5 V
- Operating Temperature：-10°C~55°C
- Consumption current：< 2 A
- Supports KAMIO series carry boards and VITO / IOVU series

Jumpers and Connectors

PM-3801 V1.03 Jumper Setting

		Internal COM	External COM
JP1	CTS	1-2	2-3
JP2	RTS	1-2	2-3
JP3	TX	1-2	2-3
JP4	RX	1-2	2-3
JP5	DCD	1-2	2-3
JP6	DTR	1-2	2-3
JP7	RI	1-2	2-3
JP8	DSR	1-2	2-3

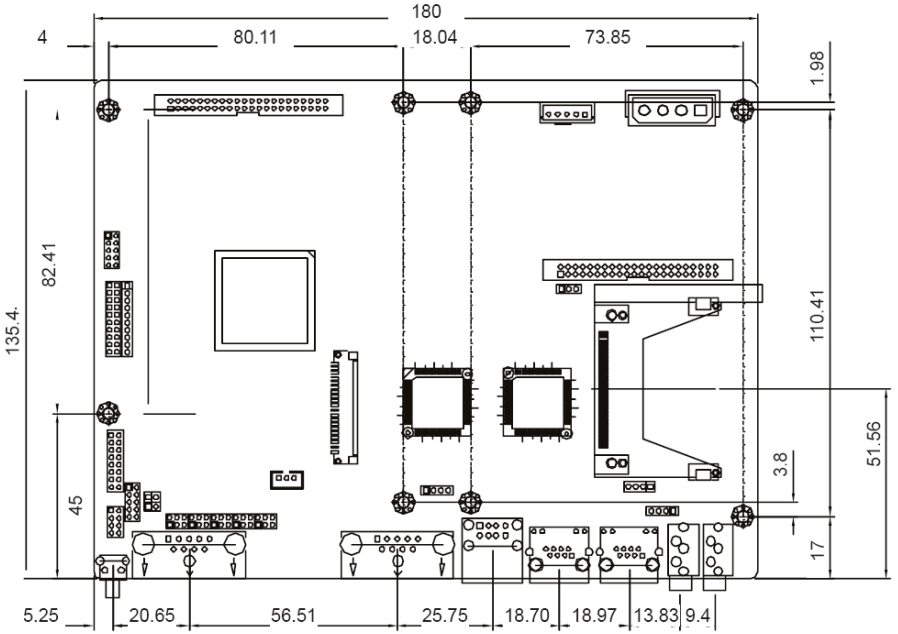
SW1 : Internal COM port Address select

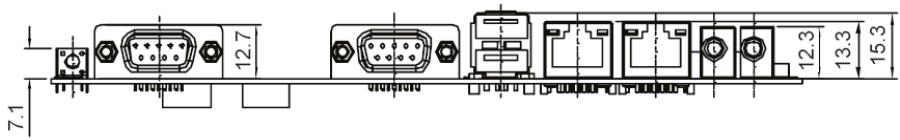
Address	S1	S2	S3	S4
2E0H	ON	ON	ON	NA
2E8H	OFF	ON	ON	NA
2F0H	ON	OFF	ON	NA
2F8H	OFF	OFF	ON	NA
3E0H	ON	ON	OFF	NA
3E8H	OFF	ON	OFF	NA
3F0H	ON	OFF	OFF	NA
3F8H	OFF	OFF	OFF	NA

SW2 : Internal COM port IRQ select

IRQ	S1	S2	S3	S4	S5	S6
IRQ3	ON	OFF	OFF	OFF	OFF	OFF
IRQ4	OFF	ON	OFF	OFF	OFF	OFF
IRQ5	OFF	OFF	ON	OFF	OFF	OFF
IRQ7	OFF	OFF	OFF	ON	OFF	OFF
IRQ10	OFF	OFF	OFF	OFF	ON	OFF
IRQ11	OFF	OFF	OFF	OFF	OFF	ON

Dimension

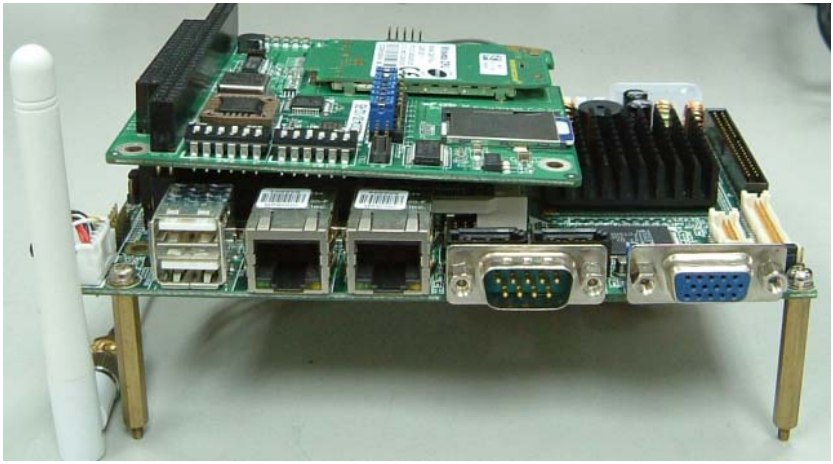

180
4
80.11
18.04
73.85
1.98
82.41
135.4
110.41
51.56
3.8
45
17
5.25
20.65
56.51
25.75
18.70
18.97
13.83
9.4


12.7
12.3
13.3
15.3
7.1

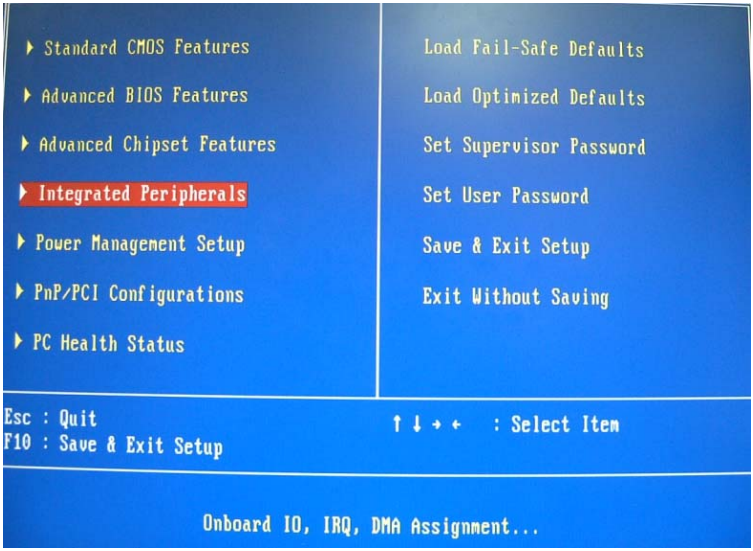
X86 System Setting

According to the PM-3801-R10 jumper setting, choose the 3E8 and IRQ7. It is just a instance, you can choose other address and IRQ.

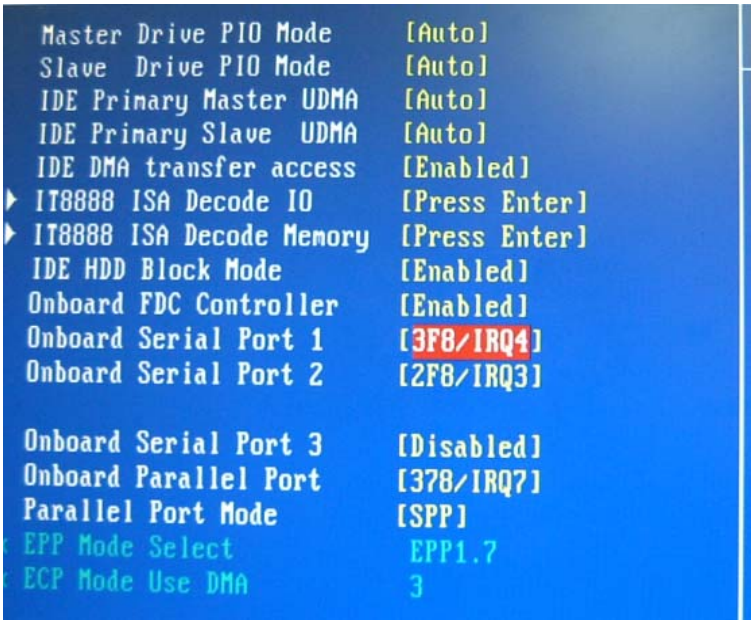
Demo Platform：Wafer-LX800
Module：PM-3801-R10



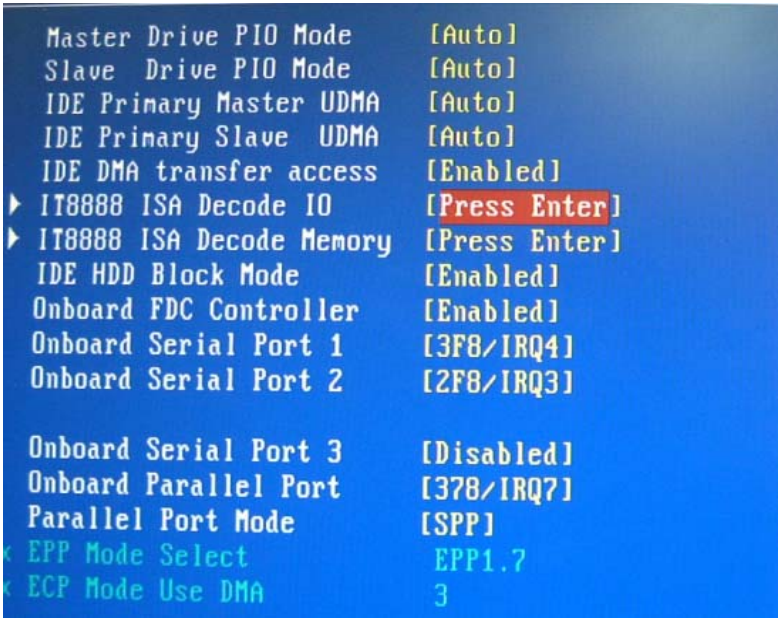
1. Check the default address of other Serial port.



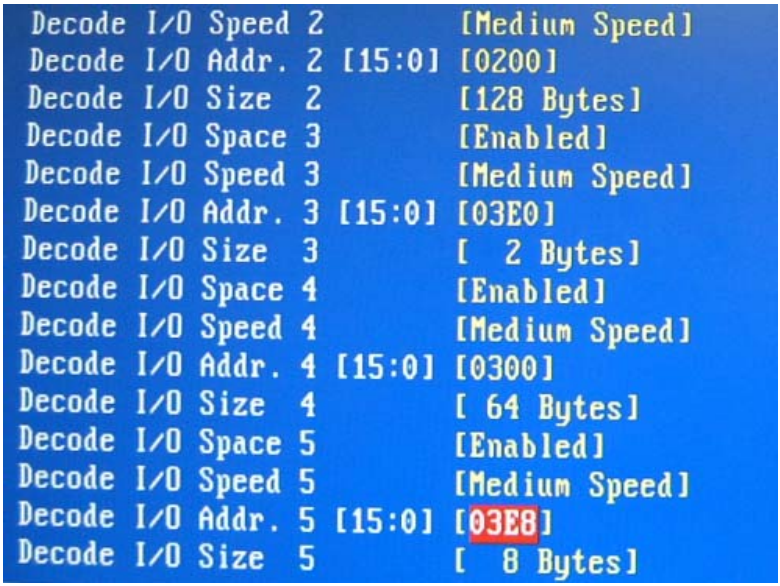
2. Check if other Serial Port of devices need address 3E8


Master Drive PIO Mode [Auto]
Slave Drive PIO Mode [Auto]
IDE Primary Master UDMA [Auto]
IDE Primary Slave UDMA [Auto]
IDE DMA transfer access [Enabled]
IT8888 ISA Decode IO [Press Enter]
IT8888 ISA Decode Memory [Press Enter]
IDE HDD Block Mode [Enabled]
Onboard FDC Controller [Enabled]
Onboard Serial Port 1 [3F8/IRQ4]
Onboard Serial Port 2 [2F8/IRQ3]
Onboard Serial Port 3 [Disabled]
Onboard Parallel Port [378/IRQ7]
Parallel Port Mode [SPP]
EPP Mode Select EPP1.7
ECP Mode Use DMA 3

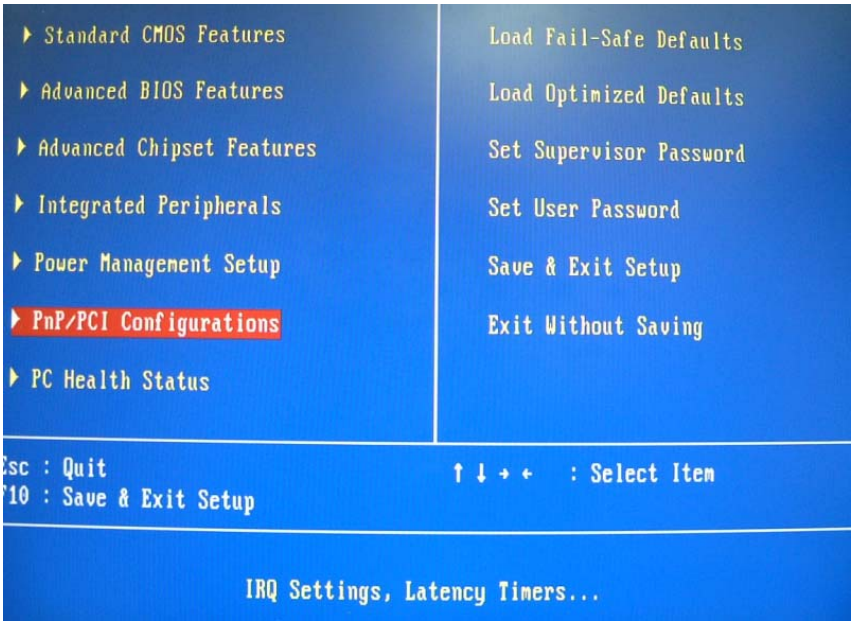
3. Check ISA Decode IO

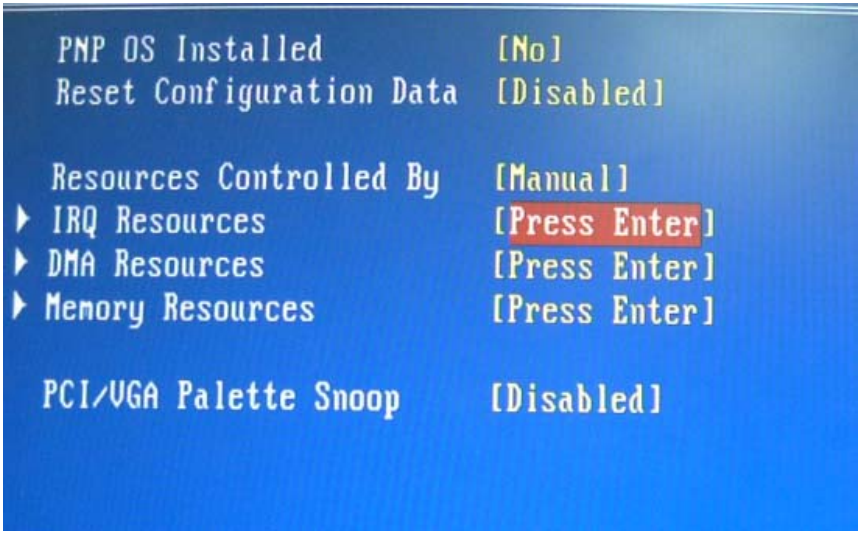

Master Drive PIO Mode [Auto]
Slave Drive PIO Mode [Auto]
IDE Primary Master UDMA [Auto]
IDE Primary Slave UDMA [Auto]
IDE DMA transfer access [Enabled]
IT8888 ISA Decode IO [Press Enter]
IT8888 ISA Decode Memory [Press Enter]
IDE HDD Block Mode [Enabled]
Onboard FDC Controller [Enabled]
Onboard Serial Port 1 [3F8/IRQ4]
Onboard Serial Port 2 [2F8/IRQ3]
Onboard Serial Port 3 [Disabled]
Onboard Parallel Port [378/IRQ7]
Parallel Port Mode [SPP]
EPP Mode Select EPP1.7
ECP Mode Use DMA 3

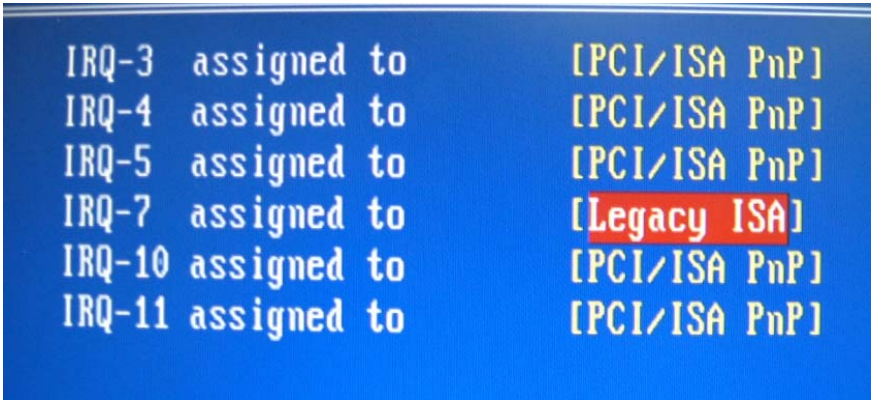
4. Add the address 03E8 and set the I/O size to 8 bytes


Decode I/O Speed 2 [Medium Speed]
Decode I/O Addr. 2 [15:0] [0200]
Decode I/O Size 2 [128 Bytes]
Decode I/O Space 3 [Enabled]
Decode I/O Speed 3 [Medium Speed]
Decode I/O Addr. 3 [15:0] [03E0]
Decode I/O Size 3 [2 Bytes]
Decode I/O Space 4 [Enabled]
Decode I/O Speed 4 [Medium Speed]
Decode I/O Addr. 4 [15:0] [0300]
Decode I/O Size 4 [64 Bytes]
Decode I/O Space 5 [Enabled]
Decode I/O Speed 5 [Medium Speed]
Decode I/O Addr. 5 [15:0] [03E8]
Decode I/O Size 5 [8 Bytes]

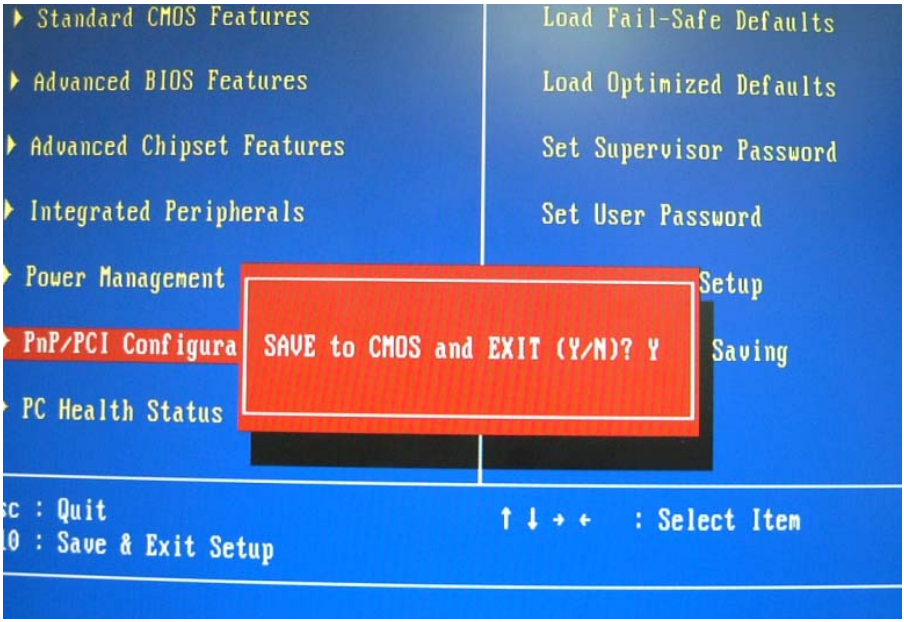
5. Set the IRO7 to be reserved for ISA.



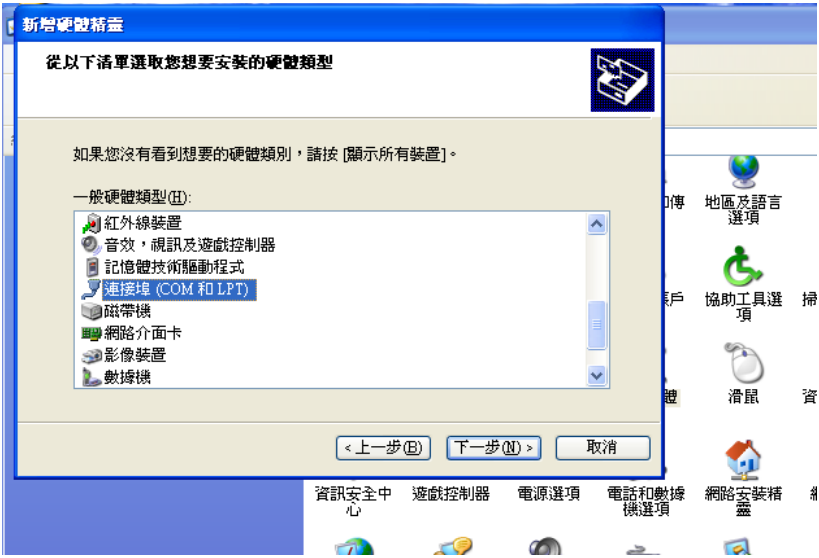

PNP OS Installed [No]
Reset Configuration Data [Disabled]
Resources Controlled By [Manual]
IRQ Resources [Press Enter]
DMA Resources [Press Enter]
Memory Resources [Press Enter]
PCI/VGA Palette Snoop [Disabled]


IRQ-3 assigned to [PCI/ISA PnP]
IRQ-4 assigned to [PCI/ISA PnP]
IRQ-5 assigned to [PCI/ISA PnP]
IRQ-7 assigned to [Legacy ISA]
IRQ-10 assigned to [PCI/ISA PnP]
IRQ-11 assigned to [PCI/ISA PnP]

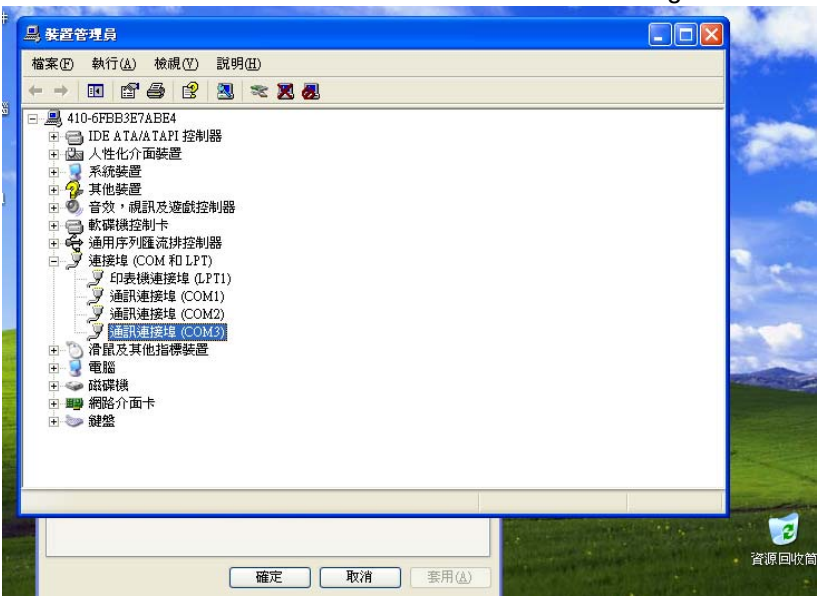
6. Save the BIOS setting



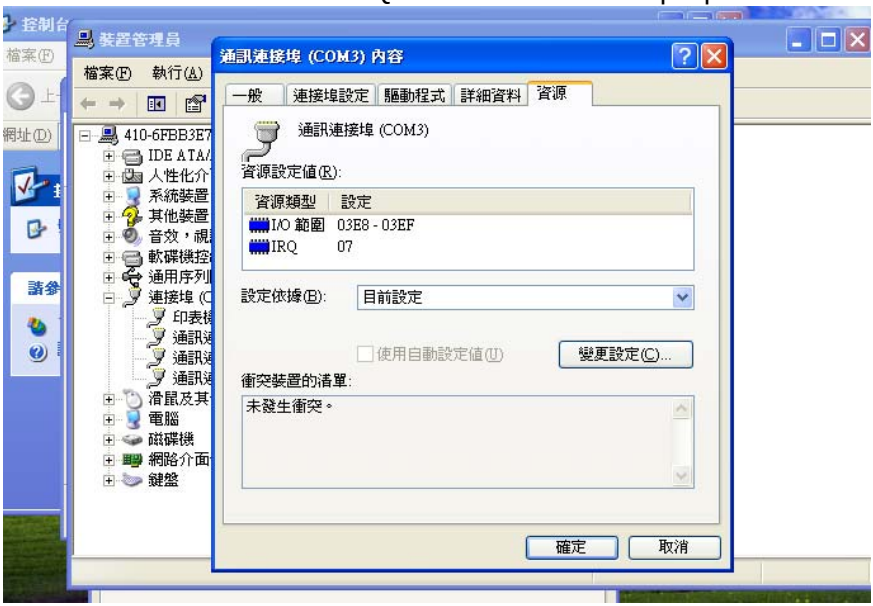
7. Use “Add Hardware” to add a new COM port.
   Choose “COM & LPT”



8. There will be a new COM3 in the “Device Manager



9. Check the address and IRQ number in COM3's properties.



10. Save all setting and reboot the devices, then the PM-3801 will work properly.